STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/9/0,2080
Source:	1FW/6,
Date Processed by STIC:	/2/7/06
•	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
 Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/9/0, 208C	
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12Patentln 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFW16

RAW SEQUENCE LISTING DATE: 12/07/2006
PATENT APPLICATION: US/09/910,208C TIME: 08:54:18

Input Set : F:\MM4454.ST25.txt

Output Set: N:\CRF4\12072006\1910208C.Faw	
3 <110> APPLICANT: Hitomi, Jiro	Not Comply Sted Diskette Needed
4 Yamamura, Tokujiro	,
5 Kimura, Tatsuji	A
6 Yamaguchi, Ken	^{vot} C
8 <120> TITLE OF INVENTION: Novel Calcium-Binding Proteins	led Comple
10 <130> FILE REFERENCE: MM4454	" Disk Diy
12 <140> CURRENT APPLICATION NUMBER: 09/910,208C	"ette A.
13 <141> CURRENT FILING DATE: 2001-07-20	'Veedo
15 <160> NUMBER OF SEQ ID NOS: 20	-60
17 <170> SOFTWARE: PatentIn version 3.3	n E110
19 <210> SEO ID NO: 1	11 4
20 <211> LENGTH: 429	Summer Steel
21 <212> TYPE: DNA	John 1
15 <160> NUMBER OF SEQ ID NOS: 20 17 <170> SOFTWARE: PatentIn version 3.3 19 <210> SEQ ID NO: 1 20 <211> LENGTH: 429 21 <212> TYPE: DNA 22 <213> ORGANISM: Calcium binding protein 25 <220> FEATURE: 26 <221> NAME/KEY: exon 27 <222> LOCATION: (48)(323) 28 <223> OTHER INFORMATION: Amino acid sequence of calcium-binding protein 29 amniotic fluid 31 <400> SEQUENCE: 1	1. Ca V Cooner
25 <220> FEATURE: Tf this is an Are	h Had 3-9,0005
26 <221> NAME/KEY: exon	the notered in
27 <222> LOCATION: (48)(323)	L2207-L2237
28 <223> OTHER INFORMATION: Amino acid sequence of calcium-binding p	rotein from bovine
29 amniotic fluid	seem
or troy bigoiner. I	
32 ctggcattcc acacttctgt gcagaggggt gaacgtagtt tggtaaa atg act aag	56
33 Met Thr Lys	
34 1	
36 ctg gaa gat cac ctg gag gga atc atc aac atc ttc cac cag tac tcc	104
37 Leu Glu Asp His Leu Glu Gly Ile Ile Asn Ile Phe His Gln Tyr Ser	
38 5 10 15	150
40 gtt cgg gtg ggg cat ttc gac acc ctc aac aag cgt gag ctg aag cag	152
41 Val Arg Val Gly His Phe Asp Thr Leu Asn Lys Arg Glu Leu Lys Gln 42 20 25 30 35	
44 ctg atc aca aag gaa ctt ccc aaa acc ctc cag aac acc aaa gat caa	200
45 Leu Ile Thr Lys Glu Leu Pro Lys Thr Leu Gln Asn Thr Lys Asp Gln	200
46 40 45 50	
48 cct acc att gac aaa ata ttc caa gac ctg gat gcc gat aaa gac gga	248
49 Pro Thr Ile Asp Lys Ile Phe Gln Asp Leu Asp Ala Asp Lys Asp Gly	
50 55 60 65	
52 qcc qtc aqc ttt qaq qaa ttc qta qtc ctq qtq tcc agg gtq ctq aaa	296
53 Ala Val Ser Phe Glu Glu Phe Val Val Leu Val Ser Arg Val Leu Lys	
54 70 75 80	
56 aca gcc cac ata gat atc cac aaa gag taggaagctc tttccagcaa	343
57 Thr Ala His Ile Asp Ile His Lys Glu	
58 85 90	
60 tgtccccaag aagacttacc cttctcctcc ctgaggctgc cttacccgag ggaagagaga	403
62 attaataaac gtactttggc aaagtt	429

RAW SEQUENCE LISTING DATE: 12/07/2006 PATENT APPLICATION: US/09/910,208C TIME: 08:54:18

Input Set : F:\MM4454.ST25.txt

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65 <210> SEQ ID NO: 2
66 <211> LENGTH: 50
67 <212> TYPE: PRT
68 <213> ORGANISM: Bos taurus
70 <400> SEQUENCE: 2
72 Thr Lys Leu Glu His Leu Glu Gly Ile Ile Asn Ile Phe His Gln Tyr
73 1
76 Ser Val Arg Val Gly His Phe Asp Thr Leu Asn Lys Arg Glu Leu Lys
77
                                   25
80 Gln Leu Ile Thr Lys Glu Leu Pro Lys Thr Leu Gln Asn Thr Lys Asp
                               40
84 Gln Pro
85
      50
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 8
90 <212> TYPE: PRT
91 <213> ORGANISM: Bos taurus
93 <400> SEQUENCE: 3
95 Ile Phe Gln Asp Leu Asp Ala Asp
96 1
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 12
101 <212> TYPE: PRT
102 <213> ORGANISM: Bos taurus
104 <400> SEQUENCE: 4
106 Asp Gly Ala Val Ser Phe Glu Glu Phe Val Val Leu
107 1
110 <210> SEQ ID NO: 5
111 <211> LENGTH: 9
112 <212> TYPE: PRT
113 <213> ORGANISM: Bos taurus
115 <400> SEQUENCE: 5
117 Thr Ala His Ile Asp Ile His Lys Glu
121 <210> SEQ ID NO: 6
122 <211> LENGTH: 31
123 <212> TYPE: PRT
124 <213> ORGANISM: Bos taurus
126 <400> SEQUENCE: 6
128 Leu Pro Lys Thr Leu Gln Asn Thr Lys Asp Gln Pro Thr Ile Asp Lys
132 Ile Phe Gln Asp Leu Asp Ala Asp Lys Asp Gly Ala Val Ser Phe
                                     25
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 20
138 <212> TYPE: PRT
139 <213> ORGANISM: Bos taurus
141 <400> SEQUENCE: 7
143 Glu Phe Val Val Leu Val Ser Arg Val Leu Lys Arg Ala His Ile Asp
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DATE: 12/07/2006 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/910,208C TIME: 08:54:18

15

10

Input Set : F:\MM4454.ST25.txt

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144 1
     147 Ile His Lys Glu
     151 <210> SEQ ID NO: 8
     152 <211> LENGTH: 20
     153 <212> TYPE: DNA
     154 <213> ORGANISM: Artificial
     156 <220> FEATURE:
     157 <223> OTHER INFORMATION: sense primer
     160 <220> FEATURE:
     161 <221> NAME/KEY: misc_feature
     162 <222> LOCATION: (3)..(3)
     163 <223> OTHER INFORMATION: n is a, c, g or t
     165 <220> FEATURE:
     166 <221> NAME/KEY: misc_feature
     167 <222> LOCATION: (15)..(15)
     168 <223> OTHER INFORMATION: n is a, c, g, or t
     170 <400> SEQUENCE: 8
W--> 171 ttngargayc ayytngargg
                                                                                 20
     174 <210> SEQ ID NO: 9
     175 <211> LENGTH: 20
     176 <212> TYPE: DNA
     177 <213> ORGANISM: Artificial
     179 <220> FEATURE:
     180 <223> OTHER INFORMATION: antisense primer
     183 <220> FEATURE:
     184 <221> NAME/KEY: misc feature
     185 <222> LOCATION: (18)..(18)
     186 <223> OTHER INFORMATION: n is a, c, g, or t
     188 <400> SEQUENCE: 9
                                                                                 20
W--> 189 ttrtgdatrt cdatrtgngc
     192 <210> SEQ ID NO: 10
     193 <211> LENGTH: 23
     194 <212> TYPE: DNA
     195 <213> ORGANISM: Artificial
     197 <220> FEATURE:
     198 <223> OTHER INFORMATION: forward primer
     200 <400> SEQUENCE: 10
                                                                                 23
     201 ggtggcacga ctcctggagc ccg
     204 <210> SEQ ID NO: 11
     205 <211> LENGTH: 24
     206 <212> TYPE: DNA
     207 <213> ORGANISM: Artificial
     209 <220> FEATURE:
     210 <223> OTHER INFORMATION: reverse primer
     212 <400> SEQUENCE: 11
     213 ttgacaccag accaactggt aatg
                                                                                 24
     216 <210> SEO ID NO: 12
     217 <211> LENGTH: 440
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RAW SEQUENCE LISTING DATE: 12/07/2006
PATENT APPLICATION: US/09/910,208C TIME: 08:54:18

Input Set : F:\MM4454.ST25.txt

Output Set: N:\CRF4\12072006\I910208C.raw

OK because source is listed 218 <212> TYPE: DNA 219 <213> ORGANISM: human calcium-binding protein 222 <220> FEATURE: -223 <221> NAME/KEY: exon 224 <222> LOCATION: (22)..(297) 225 <223> OTHER INFORMATION: Deduced amino acid sequence for human calcium-binding protein 227 <400> SEQUENCE: 12 51 228 ggttaacatt aggctgggaa g atg aca aaa ctt gaa gag cat ctg gag gga Met Thr Lys Leu Glu Glu His Leu Glu Gly 230 5 232 att gtc aat atc ttc cac caa tac tca gtt cgg aag ggg cat ttt gac 99 233 Ile Val Asn Ile Phe His Gln Tyr Ser Val Arg Lys Gly His Phe Asp 15 236 acc ctc tct aag ggt gag ctg aag cag ctg ctt aca aag gag ctt gca 147 237 Thr Leu Ser Lys Gly Glu Leu Lys Gln Leu Leu Thr Lys Glu Leu Ala 30 35 240 aac acc atc aag aat atc aaa gat aaa gct gtc att gat gaa ata ttc 195 241 Asn Thr Ile Lys Asn Ile Lys Asp Lys Ala Val Ile Asp Glu Ile Phe 50 242 45 244 caa ggc ctg gat gct aat caa gat gaa cag gtc gac ttt caa gaa ttc 243 245 Gln Gly Leu Asp Ala Asn Gln Asp Glu Gln Val Asp Phe Gln Glu Phe 65 248 ata tcc ctg gta gcc att gcg ctg aag gct gcc cat tac cac acc cac 291 249 Ile Ser Leu Val Ala Ile Ala Leu Lys Ala Ala His Tyr His Thr His 252 aaa gag taggtagctc tctgaagctt tttacccagc aatgtcctca atgagggtct 347 253 Lys Glu 256 tttctttccc tcaccaaaac ccaqccttqc ccqtqqqqaq taaqaqttaa taaacacact 407 258 cacgaaaagt taaaaaaaaa aaaaaaaaat tct 440 261 <210> SEQ ID NO: 13 262 <211> LENGTH: 20 263 <212> TYPE: DNA 264 <213> ORGANISM: Artificial 266 <220> FEATURE: 267 <223> OTHER INFORMATION: sense primer 269 <400> SEQUENCE: 13 270 actatcaaca tcttccacca 20 273 <210> SEQ ID NO: 14 274 <211> LENGTH: 20 275 <212> TYPE: DNA 276 <213> ORGANISM: artificial 278 <220> FEATURE: 279 <223> OTHER INFORMATION: antisense primer 281 <400> SEQUENCE: 14 20 282 tctttatcgg catccaggtc 285 <210> SEQ ID NO: 15 286 <211> LENGTH: 15 287 <212> TYPE: DNA

288 <213> ORGANISM: Artificial

RAW SEQUENCE LISTING DATE: 12/07/2006
PATENT APPLICATION: US/09/910,208C TIME: 08:54:18

Input Set : F:\MM4454.ST25.txt

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290 <220> FEATURE:
291 <223> OTHER INFORMATION: primer PMN.HP7S 1-15
293 <400> SEQUENCE: 15
294 tactcagttc ggaag
                                                                            15
297 <210> SEQ ID NO: 16
298 <211> LENGTH: 15
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial
302 <220> FEATURE:
303 <223> OTHER INFORMATION: primer PMN.HP7A 126-112
305 <400> SEQUENCE: 16
306 ttggaatatt tcatc
                                                                           15
309 <210> SEQ ID NO: 17
310 <211> LENGTH: 20
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial
314 <220> FEATURE:
315 <223> OTHER INFORMATION: primer HP7S 7-26
317 <400> SEQUENCE: 17
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318 acattaggct gggaagatga
321 <210> SEQ ID NO: 18
322 <211> LENGTH: 20
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial
326 <220> FEATURE:
327 <223> OTHER INFORMATION: primer HP7A 336-317
329 <400> SEQUENCE: 18
                                                                            20
330 ggacattgct gggtaaaaag
333 <210> SEQ ID NO: 19
                        same even as page I
334 <211> LENGTH: 92
335 <212> TYPE: PRT
336 <213> ORGANISM: calcium binding protein
339 <220> FEATURE:
340 <221> NAME/KEY: misc_feature
341 <222> LOCATION: (1)..(92)
342 <223> OTHER INFORMATION: Amino acid sequence of SEQ ID No. 1
344 <400> SEQUENCE: 19
346 Met Thr Lys Leu Glu Asp His Leu Glu Gly Ile Ile Asn Ile Phe His
347 1
350 Glu Tyr Ser Val Arg Val Gly His Phe Asp Thr Leu Asn Lys Arg Glu
354 Leu Lys Gln Leu Ile Thr Lys Glu Leu Pro Lys Thr Leu Gln Asn Thr
                                40
358 Lys Asp Gln Pro Thr Ile Asp Lys Ile Phe Gln Asp Leu Asp Ala Asp
                            55
362 Lys Asp Gly Ala Val Ser Phe Glu Glu Phe Val Val Leu Val Ser Arg
                        70
                                             75
366 Val Leu Lys Thr Ala His Ile Asp Ile His Lys Glu
367
                    85
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/910,208C

DATE: 12/07/2006 TIME: 08:54:19

Input Set : F:\MM4454.ST25.txt

Output Set: N:\CRF4\12072006\I910208C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 3,15 Seq#:9; N Pos. 18

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:8,9,10,11,13,11,15,16,17,18

VERIFICATION SUMMARY

DATE: 12/07/2006

PATENT APPLICATION: US/09/910,208C

TIME: 08:54:19

Input Set : F:\MM4454.ST25.txt

Output Set: N:\CRF4\12072006\1910208C.raw

L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0 L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0